

Spot[®] Charger Information for Use (IFU)

Safety and Operations Manual

Version 1.1 Original Instructions
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Table of Contents

- 1. Introduction 4**
 - 1.1. Manufacturer Information 4
 - 1.2. Specifications 4
- 2. Product Safety Overview 5**
 - 2.1. Intended Use 5
 - 2.2. Before Starting 5
 - 2.3. Battery Charging 5
 - 2.3.1. Charge a Battery in the Charging Case 6
 - 2.3.2. Charge a Battery in Spot 7
 - 2.4. Battery Charging Operating Environment 8
- 3. Maintenance 9**
- 4. Compliance Statement 10**
 - 4.1. EU Declaration of Conformity 10

1. Introduction

This document contains critical safety information.

Responsible use of Spot is crucial to prevent dangerous conditions for operators and others nearby. Make sure to read, understand and comply with this document to lessen the risk of injuries or damage to the robot or other property.

This power supply is designed exclusively for use with the Spot robot.

Please read the entire document before using Spot and keep the document in a readily accessible location afterwards.

1.1. Manufacturer Information

Spot is manufactured by:

Boston Dynamics, Inc.
200 Smith St.
Waltham, MA 02451
USA

+1 617-868-5600

1.2. Specifications

Input voltage: 100-240VAC 50/60Hz 8A

Output: 58.6 VDC 12A

Operating temperature: 0° to 40°C

2. Product Safety Overview



WARNING

To reduce the risk of electric shock and fire:

- Use a properly grounded outlet.
- Do not use ground adapters or replace plug.
- Do not touch uninsulated parts of the output connector or battery terminals.
- Do not open or disassemble the charger. Do not use if the AC cord is damaged

2.1. Intended Use

The Spot Charger is intended to be used only with the Spot Robot and the battery pack used with the Spot robot.

2.2. Before Starting

Because the Power Supply is used with the Spot robot, users need to familiarize themselves with Spot. General instructions about Spot setup are in the Spot Information for Use. Please familiarize yourself with these instructions before using the Power Supply.

2.3. Battery Charging

Spot is powered by a removable lithium-ion battery pack. The battery can be charged by itself or while inside the robot.

The charger comes with two cables:

- Power cable: From wall (AC) to charger
- Shore power cable: From charger to Spot

2.3.1. Charge a Battery in the Charging Case



Charging a battery in the charging case.

1. Unlatch and open the cover of the charger.
2. Unspool the black power cable from around the edge of the base, then plug the end of the cable into a suitable power outlet.
3. Place the battery in the charging tray. Ensure that the contacts on the underside of the battery line up with the contacts inside the charging tray and that the battery is fully seated in the tray.
4. When charging is complete, remove the battery and spool the power cable around the edge of the base, then close and latch the lid before storing the charger.

2.3.2. Charge a Battery in Spot



Charging a battery in Spot.



WARNING

Before setting up or operating the charger to charge a battery in Spot, ensure that:

- Spot's motors are powered off and the motor lockout is set.
- Spot is resting on flat, stable ground.
- There is sufficient space nearby to set up the charger without entangling cables around the robot.

1. Unlatch and open the cover of the charger.
2. Unspool the black power cable from around the edge of the base, then plug the end of the cable into a suitable power outlet.
3. Unspool the green shore power cable from around the inside of the lid. Connect the end of the cable to the charging port on Spot's rear panel. The battery will begin charging regardless of whether Spot's computers are powered on or off.
4. When charging is complete, disconnect the shore power cable from Spot and spool it around the edge of the lid. Disconnect the power cable from the outlet and spool it around the edge of the base, then close and latch the lid before storing the charger. Do not power on Spot's motors or operate the robot until the charger has been fully disconnected and stowed.

**WARNING**

Only charge battery with the charger provided by Boston Dynamics.

Do not short-circuit, burn, disassemble, submerge, puncture, crush, drop, or damage the battery.

If a battery fire starts, do not try to put it out. Evacuate to a safe area and call the fire department. Battery fires create toxic fumes and cannot be put out with conventional fire extinguishers or water.

**WARNING**

To reduce the risk of electric shock and fire:

Use a properly grounded outlet. Do not use ground adapters or replace plug.

Do not touch uninsulated parts of the output connector or battery terminals.

Do not open or disassemble the charger.

- Use a properly grounded outlet. Do not use ground adapters or replace plug.
- Do not touch uninsulated parts of the output connector or battery terminals.
- Do not open or disassemble the charger.
- Do not use if the AC cord is damaged.

2.4. Battery Charging Operating Environment

Operating temperature: 0°C to 40°C

Input: 100-240 VAC, frequency 50/60Hz, Current 8A

Max charge time: 2.5 hours

3. Maintenance

No maintenance is necessary for the Spot Charger. However, should dust or debris get deposited on the power supply while the case is open, please follow these directions for cleaning:

- Only clean while the power supply is off.
- Before conducting any cleaning, make sure the power supply is disconnected from the Spot robot.
- Wipe out or vacuum excessive debris away from the power supply.

4. Compliance Statement

4.1. EU Declaration of Conformity

Products in the scope of the Declaration of Conformity:

- Spot Power Supply (Model: 04-00339166-001)

Listed products fulfill all the relevant provisions of the following directives:

- Low Voltage Directive 2014/35/EU and amend. (LVD). The harmonized standards used for Presumption of Conformity to the LVD, as referenced in Art. 13 of the LVD are: EN 62368-1 2014 +A11:2017
- EMC Directive 2014/30/EU and amend. (EMCD), . The harmonized standards used for Presumption of Conformity to the EMCD, as referred to in Art. 13 of the EMCD are: EN 61000-6-4:2019, EN 61000-6-2:2019